RECEIVED CENTRAL FAX CENTER

BRI/017

SEP 0 9 2008

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Currently amended) A method of transferring data 1. comprising the following steps:
 - a) transmitting, at a rate of transmission frequency that is continuously-variable and is not selected a priori, data that includes synchronization bits and bits conveying other information; and[[,]]
 - b) receiving said transmitted data by the following steps:
 - ascertaining the rate of transmission frequency 1. by sampling the bit width of at least some of said synchronization bits; and[[,]] \
 - receiving, at the ascertained rate of 2. transmission frequency, said bits representing other information[[,]]

wherein said data comprises a packet that includes two or more words containing synchronization bits, and wherein step b) is conducted on at least two words containing cynchronization bits, and wherein said at least two words containing synchronization bits are separated by one or more words-containing said bits conveying other information.

09/09/2008 PCHOMP 0000M012 1062M113

01 FC:1202

450.00 OP

(canceled) 2.

BRI/017

p. 4

The method of claim 1, further (currently amended) 3. comprising the steps of:

BRINDISI LAW OFFICES

- a) establishing a system that includes a bus having encountered transmission conditions limiting the possible rate of transmission frequency on said system, which conditions are not known in advance of establishing said system but are encountered after establishment of the system, wherein said steps of transmitting and receiving are performed over said system; and[[,]]
- b) if said rate of transmission frequency exceeds said possible rate of transmission frequency under said encountered transmission conditions, altering said rate of transmission frequency so as to equal a rate frequency that is within said possible *ate of transmission frequency under said encountered transmission conditions.
- (canceled)
- The method of claim 3, wherein said bus is (original) a 2-line serial bus.
- The method of claim 1, wherein said step of (original) 6. transmitting is performed by a master device, and said step of receiving is performed by a slave device.

BRI/017

(currently amended) The method of claim 6, further 7. comprising the step of transmitting other data back from said slave device to said master device at a rate of transmission frequency determined in step b) of claim 1.

BRINDISI LAW OFFICES

- (previously presented) The method of claim 7, wherein 8. commands are transmitted in step a) of claim 1 and said other data are responsive to said commands.
- (original) The method of claim 6, wherein said slave 9. device is a detonator and said master device is a blasting machine.
- (previously presented) The method of claim 1, wherein 10. said sampling is effected by the use of a counter/timer monitoring transitions in voltage level.
- The method of claim 10, wherein (currently amended) 11. rates of sampled synchronization bits' widths are averaged together.
- 12. (previously presented) The method of claim 1, wherein within at least one word containing synchronization bits, said synchronization bits precede said bits conveying other information.

BRI/017

- 13. (currently amended) A device capable of receiving data transmitted at a rate frequency that is continuously-variable and is not selected a priori, said data comprising a packet that includes two or more words containing including synchronization bits and that includes bits conveying other information, said device including electronic circuitry that includes means for ascertaining the rate of transmission frequency by sampling the bit width of at least some synchronization bits of multiple words and means for receiving subsequently transmitted bits at the ascertained rate of transmission frequency, wherein said sampled multiple words are separated by one or more words containing bits conveying other information.
- 14. (original) The device of claim 13, wherein said device is a slave device, and said data is from a master device.
- 15. (currently amended) The device of claim 14, wherein said device is configured and/or programmed to transmit other data back to said master device at the ascertained rate of transmission frequency.
- 16. (original) The device of claim 15, wherein said slave device is a detonator and said master device is a blasting machine.

BRI/017

- 17. (currently amended) A system for transferring data comprising:
 - a) a bus;
 - b) at least one master device including means for connection to said bus, said master device including means for transmitting, at a rate frequency that is continuously-variable and is not selected a priori, data comprising a packet that includes two or more words containing synchronization bits and that includes bits conveying other information; and[[,]]
 - c) at least one slave device including means for connection to said bus, said slave device including means for ascertaining the rate of transmission frequency by sampling the bit width of at least some synchronization bits of multiple words and means for receiving said bits conveying information at the ascertained rate of transmission frequency, wherein said sampled multiple words are separated by one or more words containing bits conveying other information.
 - 18. (currently amended) The system of claim 17, wherein said bus has encountered transmission conditions that limit the possible rate of transmission frequency on the system, which conditions are not known in advance

BRI/017

of establishing the system but are encountered after establishment of the system, and wherein said master device is capable of varying the rate of its transmission frequency during transmission, if said rate of transmission frequency exceeds said possible rate of transmission frequency under said encountered transmission conditions, so as to equal a rate frequency that is within said possible rate of transmission frequency under said encountered transmission frequency under said encountered transmission conditions.

- 19. (currently amended) The system of claim 18, wherein said slave device is configured and/or programmed to transmit other data back to said master device at the ascertained rate of transmission frequency.
- 20. (original) The system of claim 19, wherein said slave device is a detonator and said master device is a blasting machine.
- 21. (previously presented) The system of claim 17, wherein said bus is a 2-line serial bus.
- 22. (previously presented) The device of claim 14, wherein the slave device and master device are connected by a 2-line serial bus.

- comprises a packet that includes two or more words each containing synchronization bits, and wherein step b) is conducted on at least two words containing synchronization bits, and wherein said at least two words containing synchronization bits, and wherein said at least two words containing synchronization bits are separated by one or more words containing said bits conveying other information.
- 24. (new) The device of claim 14, wherein said data comprises a packet including two or more words each containing synchronization bits, and wherein said means for ascertaining transmission frequency samples the bit width of at least some synchronization bits of multiple words of said packet, and wherein said sampled multiple words are separated by one or more words containing bits conveying other information.
- comprises a packet including two or more words each containing synchronization bits, and wherein said means for ascertaining transmission frequency samples the bit width of at least some synchronization bits of multiple words of said packet, and wherein said sampled multiple words are separated by one or more words containing bits conveying other information.

SEP 09 2008 9:03

BRI/017

3104392902

- (new) The method of claim 1, wherein said data 26. comprises a packet that includes two or more words each containing an initial non-alternating portion followed by a series of alternating synchronization bits.
- 27. (new) The device of claim 14, wherein said data comprises a packet that includes two or more words each containing an initial non-alternating portion followed by a series of alternating synchronization bits.
 - (new) The system of claim 17, wherein said data 28. comprises a packet that includes two or more words each containing an initial non-alternating portion followed by a series of alternating synchronization bits.
 - (new) The method of claim 1, wherein said steps of 29. transmitting and receiving are performed asynchronously.
 - 30. (new) The device of claim 13, wherein said device is configured and/or programmed to receive and transmit data asynchronously.
 - (new) The system of claim 17, wherein said master 31. device and said slave device are configured and/or programmed to receive and transmit data asynchronously.